

MONTANA STATE UNIVERSITY



PROPOSAL FOR ACADEMIC RENOVATION & ADDITION

Project: Health & Science Building

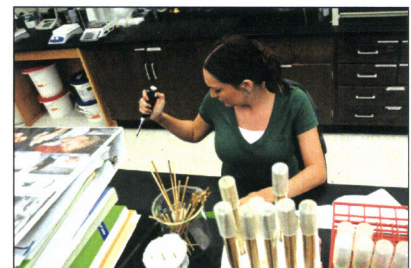
Montana hospitals, clinics, nursing homes and other health care providers rely increasingly on the graduates of the expanding Allied Health Professions and Sciences programs at MSU Billings. Students graduate ready to fill high-demand positions and meet the needs of the health care, education and science industries.

The MSU Billings Health & Science Building was constructed in 1947 and an addition was completed in 1976. The building houses some of the university's most advanced programs including chemistry, biology, physics, science education and health professions. It is critical to upgrade the facility to provide an education that will enable students to compete in today's labor market. The proposal includes renovation of the existing 49,000 square feet and 36,000 square feet of new construction.



Rationale

- **Out of date:** In 2013, the building will be 66 years old and is in dire need of upgrades to help prepare students with knowledge to meet 21st century expectations. Additionally, current lab spaces do not allow for individual workstations and the hands-on learning that make students competitive in the job market.
- **Inflexible lab spaces:** The labs are not able to adapt to the current best practices in teaching that integrate lectures with laboratory experiments. Additionally, the chemistry lab is equipped with only two fume ventilation hoods, which is inefficient for large classes that must conduct experiments.
- **Overcrowded:** Each semester, one out of every seven students at MSU Billings attends a class in the building, but there is no dedicated space for students to meet with tutors, advisers or work in groups. Due to lack of space, a janitor's closet had to be put into use as a microscope lab.
- **Building inefficiencies:** The building layout does not take advantage of any day lighting, natural ventilation or any other sustainable design strategies that reduce expenses and improve building performance.
- **Deferred maintenance:** The current building represents nearly 20 percent of all deferred maintenance on the Billings campus.

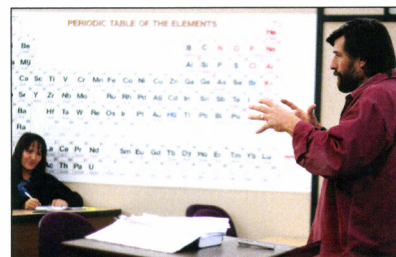


Benefits

- **Education to provide health care:** Some of the fastest growing programs at MSU Billings are in the College of Allied Health Professions, which trains students in essential areas of the health care system such as health and human services, rehab and mental health counseling, athletic training and health administration among others.
- **Strengthening pre-professional programs:** Students in many of MSU Billings' pre-professional programs including pre-medical, pre-nursing, pre-pharmacy, and pre-veterinary are trained in the Health & Science Building. The proposed improvements and exposure to modern technology will improve their education and ultimately their career success.
- **Better-educated teachers:** Future science teachers, most of whom will teach in Montana classrooms, take classes and conduct science laboratory experiments in the Health & Science Building. Their content knowledge and hands-on training will better enable them to teach the next generation of Montanans.
- **Health and science collaboration:** To maximize usage of equipment and increase collaboration, the new building design will house classrooms, labs, and offices for both science programs and allied health professional programs.
- **Construction job creation:** The renovation and construction involved in the project will also support numerous jobs in the local economy.

Health and Science Career Outlook

According to the "Montana Employment Projections 2011–2021" report from the Montana Department of Labor & Industry, the growth areas for occupational demand are well aligned with the programs housed in the Health & Science Building. The report states that "Health care occupations continue to dominate the list [of labor projections], with accountants, educators, and teachers also present." The majority of these positions require at least a postsecondary education certificate, an associate's degree or a four-year degree.



Investment

The \$14.9 million proposal, which has been endorsed by the Board of Regents, would cover renovation of the existing 49,000 square feet and the addition of 36,000 square feet of new construction.

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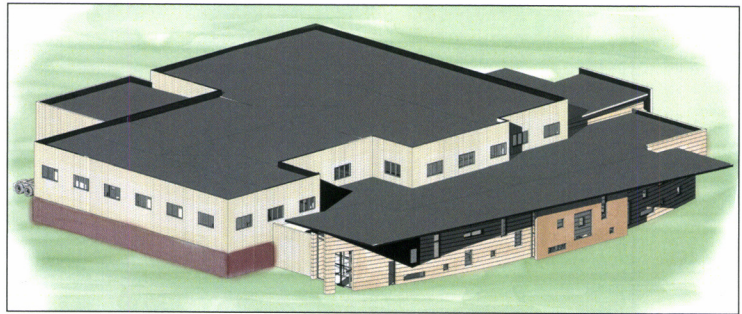
MONTANA STATE UNIVERSITY



PROPOSAL FOR FACILITY REPLACEMENT

Project: Automotive/Diesel Technology Center

One of MSU-Northern's most successful academic programs is its Diesel Technology program. Offering two or four-year degree options, the program is currently educating 226 students (fall 2012), through a hands-on technology education. Demand for graduates continues to increase and *job placement is currently at 100 percent.*



The Automotive/Diesel Technology Center project would replace the current 23,000-square-foot Auto Tech building that was constructed in 1952 with a new 30,000-square-foot Auto and Diesel Technology facility.

Rationale

- **Space limitations:** The 23,000-square-foot facility cannot accommodate growth of the program and struggles to meet existing needs.
- **Safety and code violations:** The Auto Tech building is not in compliance with current numerous building and fire codes: fire alarms are not compliant or repairable, there is no sprinkler protection system in the facility, and restrooms are not ADA compliant.
- **Inefficient building systems:** The 60-year-old building is poorly insulated and has inadequate heating, ventilation, electrical and lighting systems.
- **Deferred maintenance:** The Auto Tech Center represents a significant portion of deferred maintenance on the Havre campus.

Benefits

- **Meeting industry needs:** Graduates of the Diesel Technology program fill critical needs in agriculture, oil, mining, transportation, heavy equipment sales and service and other industries.
- **Sought after graduates:** *Spring 2012 graduates reported 100 percent job placement* and 55 companies recruit graduates of the program. Most students report several job offers upon graduation.



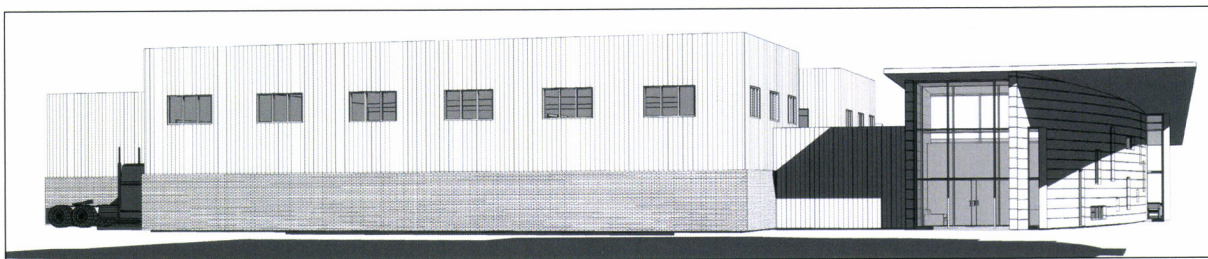
- **Construction jobs created by project:** A significant number of jobs would be supported to demolish the existing building and construct the new facility, representing a boost for the Havre economy.

Career Outlook

Growth is expected in the construction and extraction industries according to the “Montana Employment Projections 2011–2021” report from the Montana Department of Labor & Industry. The report projects there will be 729 positions created between 2011 and 2021 and the average annual salary in 2010 was \$41,492. Graduates of MSU-Northern’s Diesel Technology program would be well positioned to fill these roles.

Investment

The Board of Regents has endorsed the proposed Automotive/Diesel Technology Center. The cost to demolish and build a 30,000-square-foot facility would be \$7.96 million.



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MONTANA STATE UNIVERSITY



**GREAT FALLS
COLLEGE**
MONTANA STATE
UNIVERSITY

PROPOSAL FOR ROOF REPLACEMENT

Project: Great Falls College MSU Roof Replacement

Great Falls College MSU is a vital part of Cascade and nearby counties, providing education and career training to more than 2,400 students. By hosting the most health care degree and certificate programs in the Montana University System, Great Falls College MSU advances the region's largest economic sector. Of enrolled students, 97 percent are from Montana and the vast majority—92 percent—stay and work in Montana after graduation.



Great Falls College MSU is primarily housed in a single building with a roof that is more than 20 years old and needs to be replaced. Despite repairs to the roof, leaks persist. It is essential to replace the roof before structural damage to the building occurs.

Rationale

- **Persistent roof leaks:** The 100,000-square-foot roof is beginning to fail and several areas have experienced ongoing leaks despite repairs. One leak at a hallway junction has persisted for more than four years.
- **Potential mold problems:** The Montana Safety and Health Bureau conducted a study in July 2011 and concluded mold resulting from the leaks should be addressed.
- **Structural concerns:** Due to a lack of funds, maintenance on the roof has been limited. It is now necessary to replace the roof before it compromises the structural integrity of the building.
- **Human safety issues:** Replacing the roof will protect the health and safety of the students, faculty and staff at Great Falls College MSU.
- **Building code violations:** The drainage system of the existing roof is not in compliance with current building codes.



Benefits

- **Supplying educated employees:** Great Falls College MSU provides educated citizens in the areas of business, trades and technology and health sciences. In addition, it offers many pre-professional programs in health care fields as well as preparation for transfer to four-year colleges.
- **Educating local students:** Approximately 73 percent of the students at Great Falls College MSU are from Cascade County and rely on local access to postsecondary education to improve their job prospects or prepare for transfer to a four-year program.
- **Protecting previous educational investments:** To provide students the best education and training possible, many programs utilize cutting-edge technologies, such as the Simulation Hospital, Dental Clinic, and computer laboratories with state-of-the-art equipment and software programs. Replacing the roof will protect these critical investments.
- **Construction jobs from roof replacement:** The roof replacement will support construction jobs.

Career Outlook

Great Falls College MSU offers many programs that prepare students for high demand jobs. The “Montana Employment Projections 2011–2021” report from the Montana Department of Labor & Industry indicates a close alignment between the health sciences and pre-professional programs offered at Great Falls College MSU and the Montana employment projections for health care occupations. Graduates are well prepared to meet these needs; in fact, health science students have consistently achieved a 100 percent pass rate on national exams for respiratory care, dental hygiene, surgical technology and practical nursing.

Great Falls College MSU also trains graduates in such high-growth occupations as accounting, computer occupations, welding and assembly. Despite the recession, in-field job placement for graduates has remained strong with nearly *80 percent of graduates reporting employment the fall after they graduate.*

Investment

The Great Falls College MSU roof replacement is endorsed by the Board of Regents. This \$1.5 million project would include stripping off the existing roof, disposal of waste and installation of the new roof.

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MONTANA STATE UNIVERSITY



PROPOSAL FOR ACADEMIC RENOVATION

Project: Romney Academic Renovation

MSU-Bozeman has had record enrollment growth for five consecutive years and currently serves more than 14,500 students—a nearly 20 percent increase.

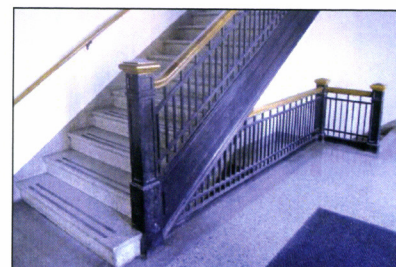
Built in 1922, Romney is underutilized and its core systems, safety systems, and access are no longer sufficient. The



Romney Academic Renovation project would create a student information and learning center.

Rationale

- **Unusable space:** Romney's prime location on campus makes its space a valuable commodity. However, several areas in the building are currently unusable, including a non-operational swimming pool (occupying a portion of two floors), a locker room, office and bathrooms. Other spaces could be better utilized through a renovation.
- **Library at capacity:** The MSU Library is at capacity and additional space is needed to accommodate students' study needs. This is especially true during heavy use times such as the week before finals when the library has 5,000 to 7,000 visits daily. Additionally, the Library had an increase of 83,837 visits year-to-date from November 2010 to November 2012—an almost 25 percent increase. The Romney Academic Renovation would provide study space to meet these demands.
- **Tutoring space needed to meet demand:** With the Library at capacity, more space is needed to accommodate tutoring sessions. During the 2011–2012 school year (fall, spring and summer semesters) 790 students received 7,890 hours of free tutoring through the SmartyCats peer-tutoring program. Usage is expected to nearly double during the 2012–13 year. With the increasing demand is a corresponding need for academic space for tutoring.
- **Professional development for faculty:** Space is needed for faculty professional development. During the 2011–2012 year, 1,357 faculty members attended 71 workshops to improve their teaching. The Romney Academic Renovation would provide needed space for helping make our faculty the best teachers they can be.



- **Disability access needed:** MSU has roughly 400 students who have registered with the Disability, Re-Entry and Veterans Services office. Currently, there are only two small rooms on the ground floor of Romney that are accessible to students with disabilities. The building has no elevator nor accessible restrooms.
- **Safety and building code violations:** The fire and life safety systems in Romney are deficient and will require significant upgrades to meet current codes.

Benefits

- **Space to enhance learning:** The renovation will include space for tutoring, mentoring and group study areas; a place for students to get assistance with research (information commons); and math and writing assistance.
- **Convenience and access:** Romney's central location on campus would help make it easy for students to take advantage of the academic support services available to them.
- **Potential to reduce student debt:** MSU's emphasis on specific course tutoring as well as math and writing tutoring is aimed to help students stay in school and graduate on time. Doing so can save individual students thousands to tens of thousands of dollars.
- **Improved teaching:** A dedicated space for faculty professional development will help make MSU's teachers the best educators they can be.
- **Potential to keep students in school and help them graduate on time:** Helping students stay in school and graduate on time through free tutoring and other academic support services is a strategic priority of MSU. The Romney Academic Renovation would be focused on providing services to achieve those goals.

Investment

The Romney Academic Renovation, which has been endorsed by the Board of Regents, would require \$20 million to transform the 50,000-square-foot building into a center for student-focused academic services and activities.

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